

AB The title compds. [I; R = Et, Pr, Me<sub>2</sub>CH, Me<sub>2</sub>CHCH<sub>2</sub>; R<sub>2</sub>N = morpholino, piperidino, 4-phenylpiperazin-1-yl, 4-(2-pyridyl)piperazin-1-yl (II)] were prepd. as anthelmintics (no data). 4,3-AcNH(O<sub>2</sub>N)C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H was converted to its acid chloride with SOCl<sub>2</sub> and amidated with 1-(2-pyridyl)piperazine to give 89% benzoylpiperazine II (R<sub>1</sub> = NO<sub>2</sub>, R<sub>2</sub> = Ac). This was deacetylated (95%) and reduced with N<sub>2</sub>H<sub>4</sub> in presence of Raney Ni to give III (R<sub>1</sub> = NH<sub>2</sub>, R<sub>2</sub> = H). The latter was cyclocondensed with MeO<sub>2</sub>C<sub>N</sub>H(:NH)SMe, prepd. by treating H<sub>2</sub>NC(:NH)SMe.cntdot.H<sub>2</sub>SO<sub>4</sub> with ClCO<sub>2</sub>Me in the presence of 2-(NH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub> to give 60% II.

ACCESSION NUMBER: 1988:94554 CAPLUS

DOCUMENT NUMBER: 108:94554

TITLE: Preparation of methyl 5(6)-(disubstituted carbamoyl)benzimidazole-2-carbamates as anthelmintics

INVENTOR(S): Kumar, Shiv; Seth, Manju; Bhaduri, Amiya Prashad; Visen, Pradeep Kumar Singh; Gupta, Suman; Ram, Shive; Mishra, Anuradha; Bhar, Shyamal Chandra; Katiyar, Jagdish Chandra; Sen, Amiya Bhushan

PATENT ASSIGNEE(S): Council of Scientific and Industrial Research (India), India

SOURCE: Indian, 14 pp.

CODEN: INXXAP

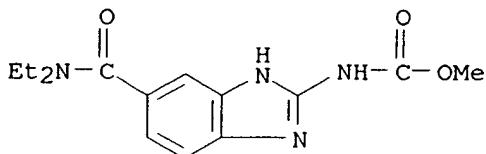
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PATENT INFORMATION:

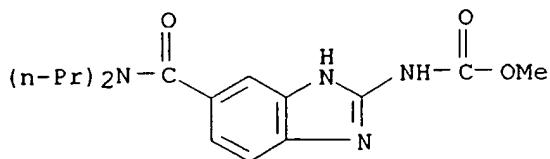
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	IN 158878	A	19870207	IN 1982-DE538	19820715
IT	67476-34-0P	67476-35-1P	67476-36-2P		
	112661-55-9P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of, as anthelmintic)				
RN	67476-34-0	CAPLUS			
CN	Carbamic acid, [5-[(diethylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI)	(CA INDEX NAME)			



RN 67476-35-1 CAPLUS

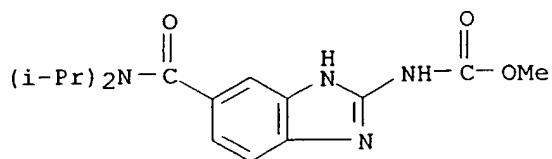
CN Carbamic acid, [5-[(dipropylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

09/676,033



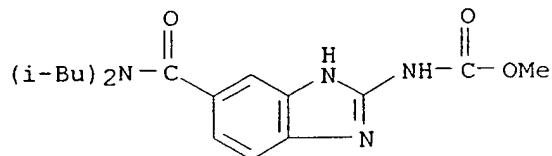
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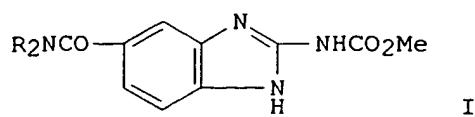
CN Carbamic acid, [5-[[bis(1-methylethyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)



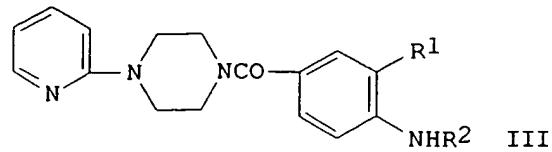
RN 112661-55-9 CAPLUS

CN Carbamic acid, [5-[[bis(2-methylpropyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)





I



III

Delacroix